

CONTENTS

Volume 41 Number 1 1977

G. M. Woodwell, D. E. Whitney Flax Pond Ecosystem Study: Exchanges of Phosphorus between a Salt Marsh and the Coastal Waters of Long Island Sound	R. W. Langton Digestive Rhythms in the Mussel <i>Mytilus edulis</i>	53
B. B. Jørgensen Bacterial Sulfate Reduction within Reduced Microniches of Oxidized Marine Sediments	1 A. S. Edwards, P. J. Herring Observations on the Comparative Morphology and Operation of the Photogenic Tissues of Myctophid Fishes	59
B. B. Jørgensen Distribution of Colorless Sulfur Bacteria (<i>Beggiatoa</i> spp.) in a Coastal Marine Sediment	7 D. L. Eng-Wilmot, W. S. Hitchcock, D. F. Martin Effect of Temperature on the Proliferation of <i>Gymnodinium breve</i> and <i>Gomphosphaeria aponina</i>	71
J. J. Manzi, P. E. Stofan, J. L. Dupuy Spatial Heterogeneity of Phytoplankton Populations in Estuarine Surface Microlayers	19 D. J. H. Phillips Effects of Salinity on the Net Uptake of Zinc by the Common Mussel <i>Mytilus edulis</i>	79
✓J. Lenz On Detritus as a Food Source for Pelagic Filter-Feeders	29 M. Betz Investigations on the Simultaneous Uptake and Release of Mercury by <i>Dunaliella tertiolecta</i>	89
G. F. Newkirk, L. E. Haley, D. L. Waugh, R. Doyle Genetics of Larvae and Spat Growth Rate in the Oyster <i>Crassostrea virginica</i>	39 H. E. Drescher, U. Harms, E. Huschenbeth Organochlorines and Heavy Metals in the Harbour Seal <i>Phoca vitulina</i> from the German North Sea Coast	99

Volume 41 Number 2 1977

Yu. I. Sorokin The Heterotrophic Phase of Plankton Succession in the Japan Sea	107 S. E. Cumway Effect of Salinity Fluctuation on the Osmotic Pressure and Na^+ , Ca^{2+} and Mg^{2+} Ion Concentrations in the Hemolymph of Bivalve Molluscs	153
M. Terazaki, R. Marumo, Y. Fujita Pigments of Meso- and Bathypelagic Chaetognaths	119 A. Calabrese, J. R. MacInnes, D. A. Nelson, J. E. Miller Survival and Growth of Bivalve Larvae under Heavy-Metal Stress	179
N. R. Menon, R. J. Katti, H. P. C. Shetty Biology of Marine Fouling in Mangalore Waters	127 N. V. Ruello Migration and Stock Studies on the Australian School Prawn <i>Metapenaeus macleayi</i>	185
D. Everich, J. G. González Critical Thermal Maxima of Two Species of Estuarine Fish	141 G. Parisi, R. Pierantoni, M. Porcelli Pigments of the Porifera: Demospongiae. I. Carotenoids of <i>Axinella verrucosa</i>	191
M. S. Johnson Association of Allozymes and Temperature in the Crested Blenny <i>Anoplarchus purpurescens</i>	147	

Volume 41 Number 3 1977

K. Banse Determining the Carbon-to-Chlorophyll Ratio of Natural Phytoplankton	199	S. D. Young, M. A. Crenshaw, D. B. King Mantle Protein Excretion and Calcification in the Hardshell Clam <i>Mercenaria mercenaria</i> . II. Protein Synthesis and Excretion by the Isolated Mantle	259
T. H. Mague, F. C. Mague, O. Holm-Hansen Physiology and Chemical Composition of Nitrogen-Fixing Phytoplankton in the Central North Pacific Ocean	213	J. C. Guary, A. Fraizer Etude comparée des teneurs en plutonium chez divers mollusques de quelques sites littoraux français. [Comparative Study of the Plutonium Levels in Various Molluscs from Several French Littoral Sites]	263
S. J. Morrison, J. D. King, R. J. Bobbie, R. E. Bechtold, D. C. White Evidence for Microfloral Succession on Allochthonous Plant Litter in Apalachicola Bay, Florida, USA	229	S. N. Luoma Physiological Characteristics of Mercury Uptake by Two Estuarine Species	269
T. Ikeda The Effect of Laboratory Conditions on the Extrapolation of Experimental Measurements to the Ecology of Marine Zooplankton. IV. Changes in Respiration and Excretion Rates of Boreal Zooplankton Species Maintained under Fed and Starved Conditions	241	D. W. Engel Comparison of the Osmoregulatory Capabilities of Two Portunid Crabs, <i>Callinectes sapidus</i> and <i>C. similis</i>	275
S. D. Young, M. A. Crenshaw, D. B. King Mantle Protein Excretion and Calcification in the Hardshell Clam <i>Mercenaria mercenaria</i> . I. Protein Excretion in the Intact Clam	253	N. Zucker Neighbor Dislodgement and Burrow-Filling Activities by Male <i>Uca musica terpsichores</i> : A Spacing Mechanism	281
		A. E. Ezzat, S. S. El-Seratty Food of <i>Anguilla anguilla</i> in Lake Manzalah, Egypt	287

Volume 41 Number 4 1977

M. A. Faust, D. L. Correll Autoradiographic Study to Detect Metabolically Active Phytoplankton and Bacteria in the Rhode River Estuary	293	T. D. Goodrich, R. Y. Morita Incidence and Estimation of Chitinase Activity Associated with Marine Fish and Other Estuarine Samples	349
B. D. Scott, H. R. Jitts Photosynthesis of Phytoplankton and Zooxanthellae on a Coral Reef	307	T. D. Goodrich, R. Y. Morita Bacterial Chitinase in the Stomachs of Marine Fishes from Yaquina Bay, Oregon, USA	355
A. L. Aldredge, J. M. King ✓ Distribution, Abundance, and Substrate Preferences of Demersal Reef Zooplankton at Lizard Island Lagoon, Great Barrier Reef	317	T. R. Fisher Metabolic Maintenance Costs of the Suspension Feeder <i>Styela plicata</i>	361
K. L. Heck, Jr. Comparative Species Richness, Composition, and Abundance of Invertebrates in Caribbean Seagrass (<i>Thalassia testudinum</i>) Meadows (Pánamá)	335	R. T. Myren, J. J. Pella Natural Variability in Distribution of an Intertidal Population of <i>Macoma balthica</i> Subject to Potential Oil Pollution at Port Valdez, Alaska	371
		Indexed in Current Contents	

